11-6625-3055-24P

TM 11-6625-3055-24P

TECHNICAL MANUAL

ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST FOR

DIGITAL MULTIMETER AN/USM-486/U (NSN 6625-01-145-2430)

HEADQUARTERS, DEPARTMENT OF THE ARMY
13 JUNE 1984

READEX FICHE best copy available

D 101.11:

Technical Manual
No. 11-6625-3055-24P

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, DC, 13 June 1984

ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST FOR DIGITAL MULTIMETER AN/USM-486/U (NSN 6625-01-145-2430)

Current as of 9 March 1984

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to: Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: DRSEL-ME-MP, Fort Monmouth, New Jersey 07703.

In either case, a reply will be furnished direct to you.

Table of Contents

			Page	Illus Figure
Section	I.	Introduction	1	
	II.	Repair Parts List	5	
Group	00	Digital Multimeter AN/USM-486/U	5	1
	01	Digital Multimeter Assembly	7	2
		0101 Main PCB Assembly A1	11	3
Section	III.	Special Tools List (Not applicable)		
	IV.	National Stock Number and Part Number Index	12	

SECTION I
INTRODUCTION

1. Scope

This manual lists spares and repair parts, special tools, special test, measurement, and diagnostic equipment (TMDE), and other special support equipment required for the performance of organizational, direct support, and general support maintenance of the AN/USM-486/U. It authorizes the requisitioning and issue of spares and repair parts as indicated by the source and maintenance codes.

2. General

This Repair Parts and Special Tools List is divided into the following sections:

a. Section II. Repair Parts List. A list of spares and repair parts authorized for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in numeric sequence, with the parts in each group listed in figure and item number sequence.

b. Section III. Special Tools List. Not applicable.

c. National Stock Number and Part Number Index. A list, in National Item Identification Number (NIIN) sequence, of all National Stock Numbers (NSN) appearing in the listings, followed by a list, in alphameric sequence, of all part numbers appearing in the listings. National Stock Numbers and part numbers are cross-referenced to each illustration figure and item number appearance.

3. Explanation of Columns

a. Illustration. This column is divided as follows:

(1) *Figure number.* Indicates the figure number of the illustration on which the item is shown.

(2) *Item number.* The number used to identify item called out in the illustration.

b. Source, Maintenance, and Recoverability (SMR) Codes.

(1) *Source code.* Source codes indicate the manner of acquiring support items for maintenance, repair, or overhaul of end items. Source codes are entered in the first and second positions of the Uniform SMR Code format as follows:

Code	*Definition*
PA	Item procured and stocked for anticipated or known usage.
XA	Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly.
XB	Item is not procured or stocked. If not available through salvage, requisition.

NOTE

Cannibalization or salvage may be used as a source of supply for any items source coded above except those coded XA and aircraft support items as restricted by AR 750-1.

(2) *Maintenance code.* Maintenance codes are assigned to indicate the levels of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the Uniform SMR Code format as follows:

(a) The maintenance code entered in the third position will indicate the lowest maintenance level that is authorized to remove, replace, and use the support item. The maintenance code entered in the third position will indicate one of the following levels of maintenance:

Code	*Definition*
H	Support item is removed, replaced, used at the general support level.
O	Support item is removed, replaced, used at the organizational level.

(b) The maintenance code entered in the fourth position indicates whether the item is to be repaired and identifies the lowest maintenance level with the capability to perform complete repair (i.e., all authorized maintenance functions). This position will contain one of the following maintenance codes:

Code	*Explanation/Application*
H	The lowest maintenance level capable of complete repair of the support item is the general support level.
Z	Nonrepairable. No repair is authorized.

(3) *Recoverability code.* Recoverability codes are assigned to support items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the Uniform SMR Code format as follows:

Code	*Definition*
H	Repairable item. When uneconomically repairable, condemn and dispose at the general support level.
Z	Nonrepairable item. When unserviceable, condemn and dispose at the level indicated in position 3.

c. National Stock Number. Indicates the National Stock Number assigned to the item and will be used for requisitioning purposes.

d. Federal Supply Code for Manufacturer (FSCM). The FSCM is a 5-digit numeric code listed in SB 708-41/42 which is used to identify the manufacturer, distributor, or Government agency, etc.

e. Part Number. Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or the Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.

NOTE

When a stock numbered item is requisitioned, the repair part received may have a part number that is different from the part that is being replaced.

f. Description. Indicates the Federal Item Name and, if required, a minimum description to identify the item.

g. Unit of Measure (U/M). Indicates the standard of the basic quantity of the listed item as used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in, pr, etc.). When the unit of measure differs from the unit of issue, the lowest unit of issue that will satisfy the required units of measure will be requisitioned.

h. Quantity Incorporated in Unit. Indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly.

4. Special Information

a. The following publication pertains to the AN/USM-486/U and its components:
TM 11-6625-3055-14P, Digital Multimeter AN/USM-486/U. (To be published.)

b. National stock numbers (NSNs) that are missing from P source coded items have been applied for and will be added to this TM by future change/revision when they are entered in the Army Master Data File (AMDF). Until the NSNs are established and published, submit exception requisitions to: Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: DRSEL-MM, Fort Monmouth, New Jersey 07703 for the part required to support your equipment.

5. How to Locate Repair Parts

a. When National Stock Number (NSN) or Part Number is unknown.

(1) *First.* Using the Table of Contents, determine the functional group within which the item belongs. This is necessary since illustrations are prepared for functional groups and listings are divided into the same groups.

(2) *Second.* Find the illustration covering the functional group to which the item belongs.

(3) *Third.* Identify the item on the illustration and note the illustration figure and item number of the item.

(4) *Fourth.* Using the Repair Parts Listing, find the figure and item number noted on the illustration.

b. When National Stock Number or Part Number is known.

(1) *First.* Using the Index of National Stock Numbers and Part Numbers, find the pertinent National Stock Number or Part Number. This index is in NIIN sequence followed by a list of part numbers in alphameric sequence, cross-referenced to the illustration figure number and item number.

(2) *Second.* After finding the figure and item number, locate the figure and item number in the repair parts list.

6. Abbreviations

Not applicable.

(Next printed page is 4)

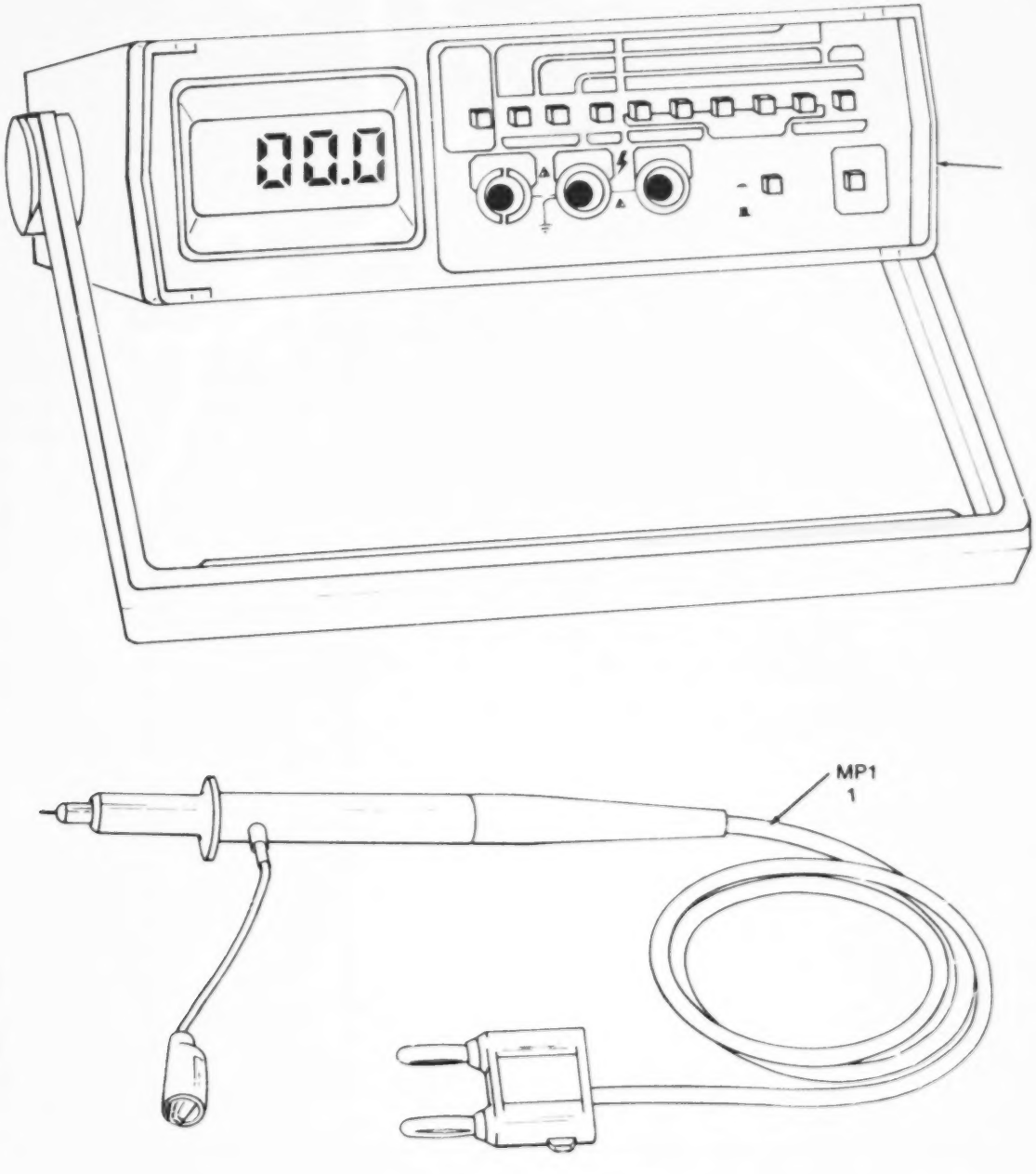


Figure 1. Digital Multimeter AN/USM-486/U

(1) ILLUSTRATION (a) FIG NO.	(1) ILLUSTRATION (b) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) FSCM	(5) PART NUMBER	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 00 DIGITAL MULTIMETER AN/USM-486/U		
1	1	PAOZZ	6625-01-131-3883	89536	8586	PROBE	EA	1

5/(6 BLANK)

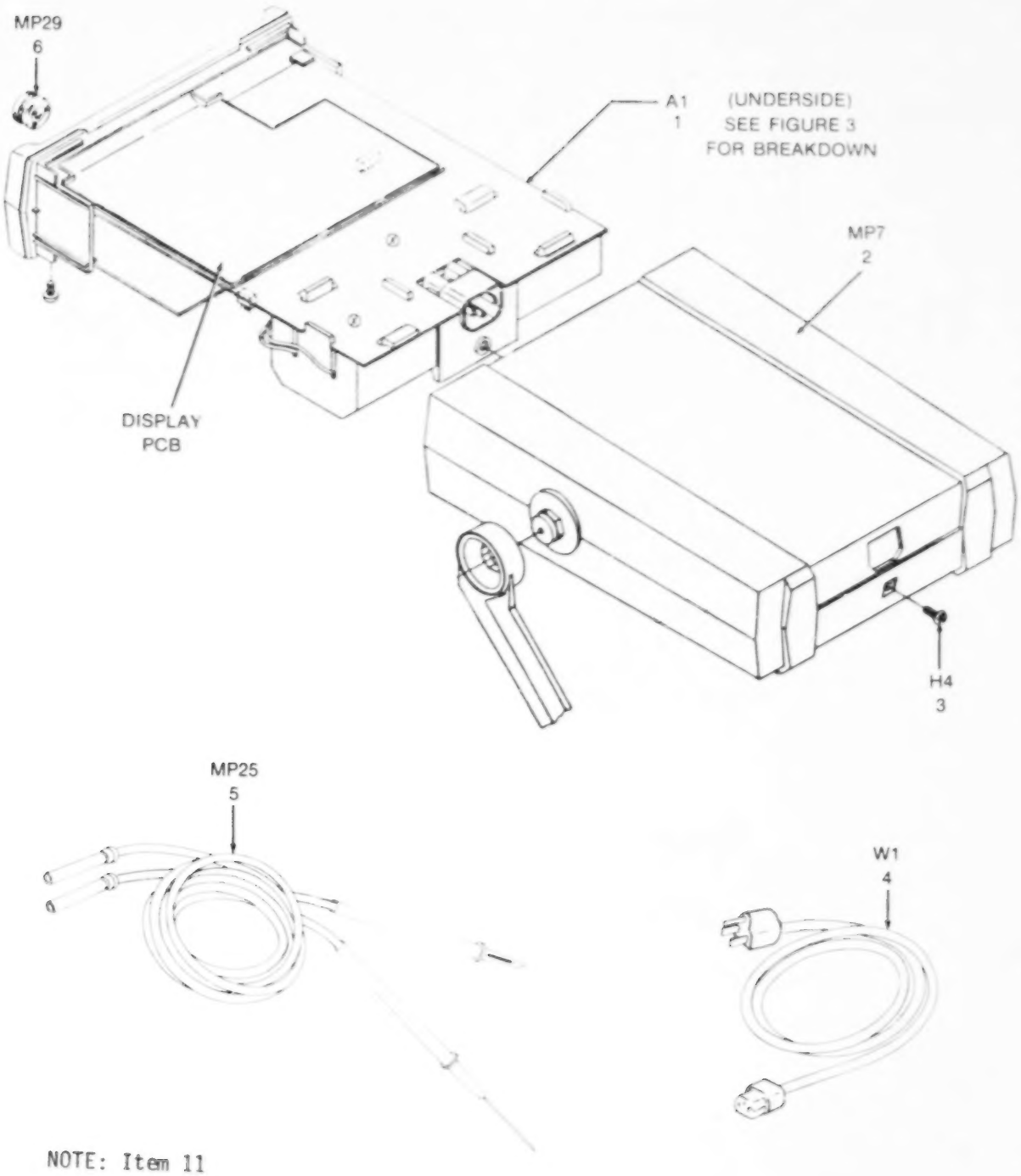


Figure 2. Digital Multimeter Assembly, Sheet 1 of 2

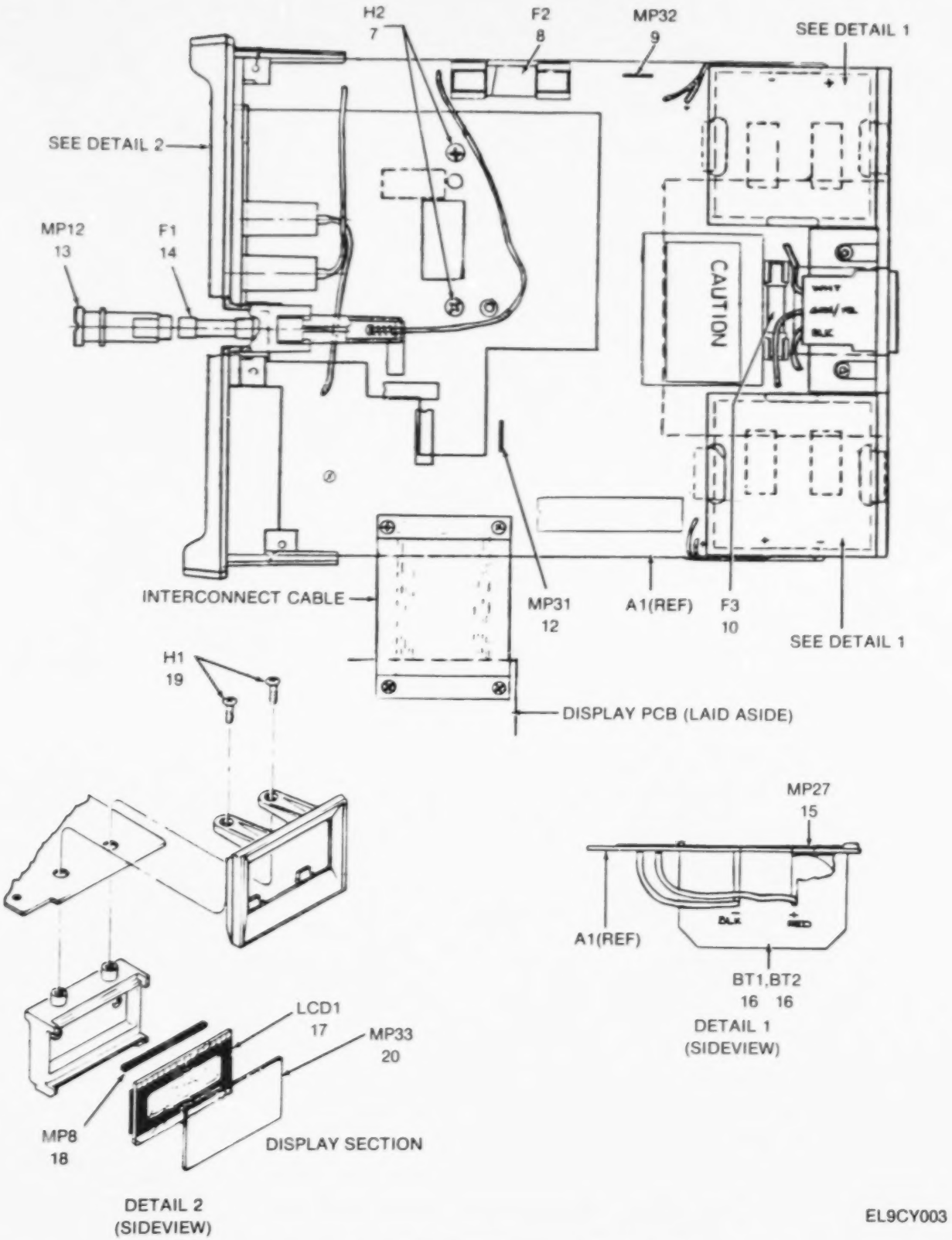
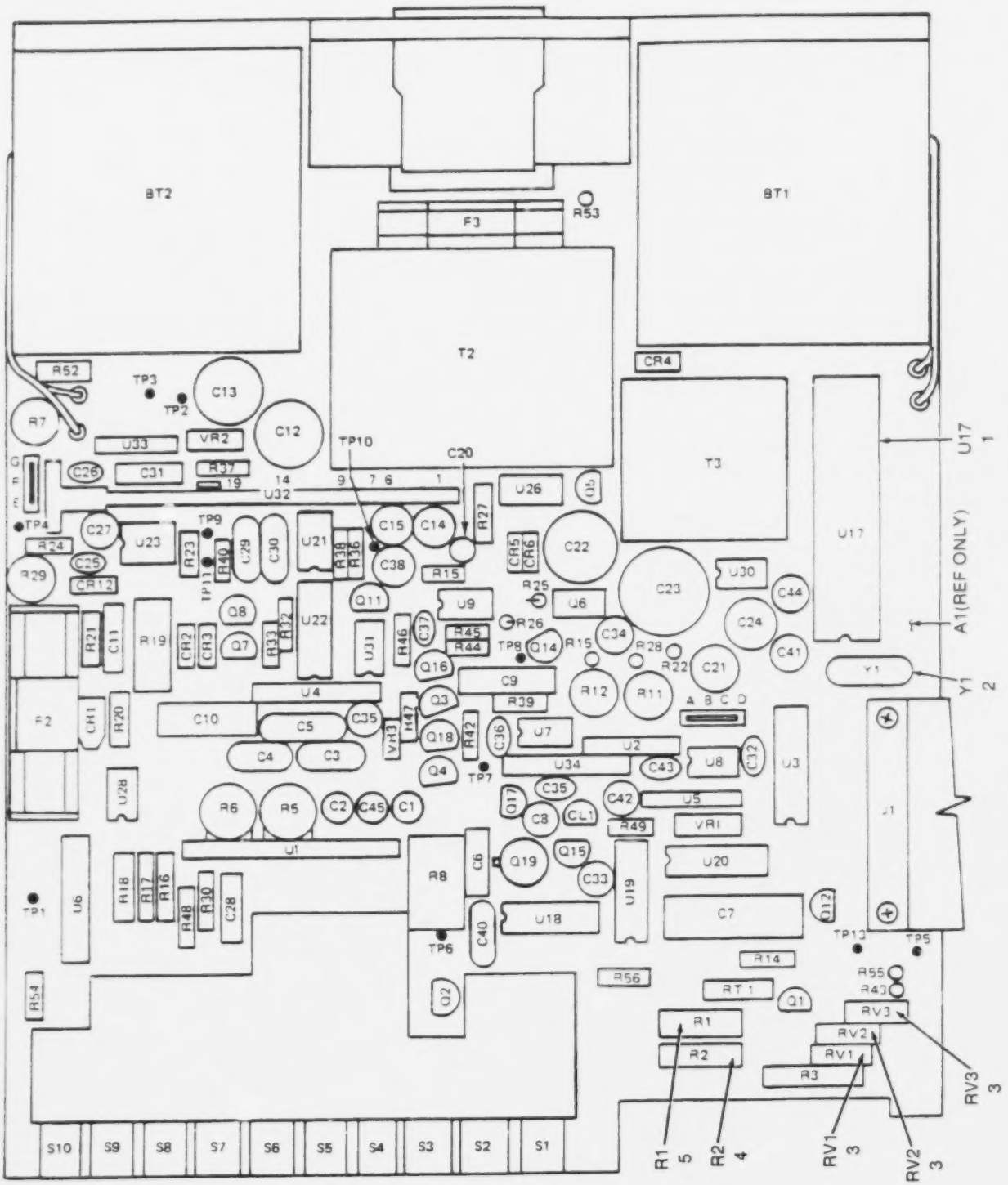


Figure 2. Digital Multimeter Assembly, Sheet 2 of 2

(1) ILLUSTRATION (a) FIG NO	(1) ILLUSTRATION (b) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) FSCM	(5) PART NUMBER	(6) DESCRIPTION / USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 01 DIGITAL MULTIMETER ASSEMBLY		
2	1	PAHHH		89536	730146	DIGITAL MULTIMETER	EA	1
2	2	XBHZZ		89536	678008	CASE, MOLDED	EA	1
2	3	PBHZZ	5305-00-054-6654	96906	MS51957-30	SCREW,MACHINE	EA	1
2	4	PBOZZ	6150-01-069-2263	89536	543723	CABLE ASSEMBLY,SPEC	EA	1
2	5	PBOZZ	6625-01-111-7614	89536	516666	LEAD,TEST	LT	1
2	6	PBHZZ	5325-01-121-2891	89536	91119	GROMMET,NONMETALLIC	EA	1
2	7	PBHZZ	5305-01-062-3336	89536	178533	SCREW,ASSEMBLED WA	EA	1
2	8	PBOZZ	5925-00-813-7714	71400	BBSX	FUSE,CARTRIDGE	EA	1
2	9	PBHZZ	6625-01-171-5546	89536	537572	JUMPER	EA	1
2	10	PBOZZ	5920-00-279-1317	81349	F03A250V1/16A	FUSE,CARTRIDGE	EA	1
2	11	PBHZZ		89536	537514	JUMPER	EA	1
2	12	PBOZZ		89536	507699	FUSE CONTACT	EA	1
2	14	PBOZZ	5920-00-956-2271	75915	342002	FUSE,CARTRIDGE	EA	1
2	15	PBHZZ	6625-01-168-6607	89536	483610	PAD ABSORBENT	EA	2
2	16	PBOZZ	6140-01-165-2165	89536	487979	ASSEMBLY,BATTERY	EA	2
2	17	PBHZZ		89536	507673	DISPLAY,LIQUID CRYS	EA	1
2	18	PBHZZ		53217	0260236	CONNECTOR,LAYERED,E	EA	1
2	19	PBHZZ		78189	0305050010255CT	SCREW,THREAD FORMIN	EA	2
2	20	PBHZZ		89536	683461	WINDOW,DISPLAY	EA	1



CAUTION
SUBJECT TO DAMAGE BY STATIC ELECTRICITY

Figure 3. A1 Main Printed Circuit Board

EL9CY004

(1) ILLUSTRATION (a) FIG NO	(1) ILLUSTRATION (b) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) FSCM	(5) PART NUMBER	(6) DESCRIPTION / USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 0101 MAIN PRINTED CIRCUIT BOARD A1		
3	1	PAHZZ	5962-01-170-2030	89536	524900	MICROCIRCUIT,DIGITA	EA	1
3	2	PAHZZ		89536	474072	CRYSTAL UNIT,QUARTZ	EA	1
3	3	PAHZZ		09214	V430MAX213	VARISTOR,HIGH VOLTA	EA	3
3	4	PAHZZ	5905-01-113-4820	89536	474080	RESISTOR,FIXED,WIRE	EA	1
3	5	PAHZZ	5905-00-299-2003	81349	RC32GF104J	RESISTOR,FIXED,COMP	EA	1

STOCK NUMBER	FIGURE NO.	ITEM NO.
5305-00-054-6654	2	3
5920-00-229-1312	2	10
5905-00-299-2003	3	5
5920-00-813-2714	2	8
5920-00-956-2271	2	14
5305-01-062-3336	2	7
6150-01-069-2263	2	4
6625-01-111-7414	2	5
5905-01-113-4820	3	4
5325-01-121-2831	2	6
6625-01-131-3883	1	1
6140-01-165-2165	2	16
6625-01-168-6607	2	15
5962-01-170-2030	3	1
6625-01-171-5546	2	9

FSCM	PART NUMBER	FIGURE NO.	ITEM NO.
71400	BBS3	2	8
81349	F028250V1/16A	2	10
96906	MS51957-30	2	3
81349	RC32GF104J	3	5
09214	V430MAX213	3	3
53217	0260236	2	18
78189	030505000102555CT	2	19
89536	178533	2	7
89536	343723	2	4
75915	362002	2	14
89536	474072	3	2
89536	474080	3	4
89536	478008	2	2
89536	483610	2	15
89536	487975	2	16
89536	507673	2	17
89536	507699	2	13
89536	516666	2	5
89536	524900	3	1
89536	537514	2	12
89536	537522	2	9
89536	683441	2	20
89536	700146	2	1
89536	85RF	1	1
83330	91119	2	6

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS

SOMETHING WRONG WITH THIS PUBLICATION?

FROM (PRINT YOUR UNIT'S COMPLETE ADDRESS)
Commander
Stateside Army Depot
ATTN: AMSTA-US
Stateside, N.J. 07703

DATE SENT
10 July 1975

PUBLICATION NUMBER	PUBLICATION DATE	PUBLICATION TITLE
TM 11-5840-340-20P	23 Jan 78	Radar Set AN/PRC-76

BE EXACT PIN-POINT WHERE IT IS

PAGE NO	PARAGRAPH	FIGURE NO	TABLE NO
33			
44		19	
45			

IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT.

For item 2, change the NSN to read: 5835-00-134-9186.
Reason: Accuracy.

Identify the cover on the junction box (item no. 5).
Reason: It is a separate item and is not called out on figure 19.

Add the cover of the junction box as an item in the listing for figure 19.
Reason: Same as above

SAMPLE

PRINTED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER
SSG I. M. DeSpirit of 999-1776

SIGN HERE
I. M. DeSpirit

DA FORM 1 JUL 79 2028-2

PREVIOUS EDITIONS ARE OBSOLETE.

P.S.--IF YOUR OUTFIT WANTS TO KNOW ABOUT YOUR RECOMMENDATION MAKE A CARBON COPY OF THIS AND GIVE IT TO YOUR HEADQUARTERS.

TEAR ALONG PERFORATED LINE

REVERSE OF DA FORM 2028-2

TEAR ALONG PERFORATED LINE

FILL IN YOUR UNIT'S ADDRESS

FOLD BACK

DEPARTMENT OF THE ARMY

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE $300

SAMPLE

Commander
US Army Communications-Electronics Command
and Fort Monmouth
ATTN: DRSEL-ME-MP
Fort Monmouth, New Jersey 07703

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS

THEN...JOT DOWN THE DOPE ABOUT IT ON THIS FORM. CAREFULLY TEAR IT OUT, FOLD IT AND DROP IT IN THE MAIL.

SOMETHING WRONG WITH THIS PUBLICATION?

FROM (PRINT YOUR UNIT'S COMPLETE ADDRESS)

DATE SENT

PUBLICATION NUMBER	PUBLICATION DATE	PUBLICATION TITLE
TM 11-6625-3055-24P	13 June 1984	Digital Multimeter AN/USM-486/U

BE EXACT PIN-POINT WHERE IT IS

PAGE NO	PARA GRAPH	FIGURE NO	TABLE NO

IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:

PRINTED NAME GRADE OR TITLE AND TELEPHONE NUMBER

SIGN HERE

DA FORM 1 JUL 79 2028-2

PREVIOUS EDITIONS ARE OBSOLETE

P.S.--IF YOUR OUTFIT WANTS TO KNOW ABOUT YOUR RECOMMENDATION MAKE A CARBON COPY OF THIS AND GIVE IT TO YOUR HEADQUARTERS.

TEAR ALONG PERFORATED LINE

REVERSE OF DA FORM 2028-2

TEAR ALONG PERFORATED LINE

FILL IN YOUR UNIT'S ADDRESS

FOLD BACK

DEPARTMENT OF THE ARMY

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE $300

Commander
US Army Communications-Electronics Command
and Fort Monmouth
ATTN: DRSEL-ME-MP
Fort Monmouth, New Jersey 07703

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS

THEN...JOT DOWN THE DOPE ABOUT IT ON THIS FORM. CAREFULLY TEAR IT OUT, FOLD IT AND DROP IT IN THE MAIL.

SOMETHING WRONG WITH THIS PUBLICATION?

FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)

DATE SENT

PUBLICATION NUMBER	PUBLICATION DATE	PUBLICATION TITLE
TM 11-6625-3055-24P	13 June 1984	Digital Multimeter AN/USM-486/U

BE EXACT PIN-POINT WHERE IT IS

PAGE NO	PARAGRAPH	FIGURE NO	TABLE NO

IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:

PRINTED NAME GRADE OR TITLE AND TELEPHONE NUMBER

SIGN HERE

DA FORM 1 JUL 79 2028-2

PREVIOUS EDITIONS ARE OBSOLETE

P.S.--IF YOUR OUTFIT WANTS TO KNOW ABOUT YOUR RECOMMENDATION MAKE A CARBON COPY OF THIS AND GIVE IT TO YOUR HEADQUARTERS.

TEAR ALONG PERFORATED LINE

REVERSE OF DA FORM 2028-2

FILL IN YOUR UNIT'S ADDRESS

FOLD BACK

DEPARTMENT OF THE ARMY

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE $300

Commander
US Army Communications-Electronics Command
and Fort Monmouth
ATTN: DRSEL-ME-MP
Fort Monmouth, New Jersey 07703

TEAR ALONG PERFORATED LINE

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS

THEN...JOT DOWN THE DOPE ABOUT IT ON THIS FORM, CAREFULLY TEAR IT OUT, FOLD IT AND DROP IT IN THE MAIL.

SOMETHING WRONG WITH THIS PUBLICATION?

FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)

DATE SENT

PUBLICATION NUMBER	PUBLICATION DATE	PUBLICATION TITLE
TM 11-6625-3055-24P	13 June 1984	Digital Multimeter AN/USM-486/U

BE EXACT PIN-POINT WHERE IT IS

PAGE NO	PARAGRAPH	FIGURE NO	TABLE NO

IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:

PRINTED NAME GRADE OR TITLE AND TELEPHONE NUMBER

SIGN HERE

DA FORM 1 JUL 79 2028-2

PREVIOUS EDITIONS ARE OBSOLETE

P.S.--IF YOUR OUTFIT WANTS TO KNOW ABOUT YOUR RECOMMENDATION MAKE A CARBON COPY OF THIS AND GIVE IT TO YOUR HEADQUARTERS.

TEAR ALONG PERFORATED LINE

REVERSE OF DA FORM 2028-2

TEAR ALONG PERFORATED LINE

FILL IN YOUR UNIT'S ADDRESS

FOLD BACK

DEPARTMENT OF THE ARMY

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE $300

Commander
US Army Communications-Electronics Command
and Fort Monmouth
ATTN: DRSEL-ME-MP
Fort Monmouth, New Jersey 07703

By Order of the Secretary of the Army:

JOHN A. WICKHAM JR.
General, United States Army
Chief of Staff

Official:

ROBERT M. JOYCE
Major General, United States Army
The Adjutant General

Distribution:

To be distributed in accordance with special list.

☆U.S. GOVERNMENT PRINTING OFFICE: 1990 - 261-872/21076

PIN : 056062-000